SONY

Multiscan Rear Projector

RVP-6000Q/6000QM

PC-1270/1270M

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Video projectors are being used in an increasing number of business, leisure and educational applications, in many of which there is a requirement for a projector able to cope with difficult ambient lighting conditions while maintaining excellent picture quality. In response to this requirement, Sony has developed the RVP-6000Q/6000QM, 60-inch multiscan, rear projection unit.

The RVP-6000Q/6000QM is a one piece, 60-inch rear projector which contains both projector head and rear projection screen. It is designed to maintain its performance even in brightly lit environments. With the multiscan capability, the projector has the flexibility to handle various input sources including computers.

Many optional accessories, such as the IFB series interface boards, SIC series signal interface cables, and the PC-1270/1270M signal interface switcher, expand the versatility and flexibility in the display system. Furthermore, the unique remote control system makes the operation very simple.

With its high mobility and outstanding picture performance, the RVP-6000Q/6000QM can be used anywhere for any purpose; business presentation, trade shows, information display, education, training, and much more.

FEATURES

ONE PIECE UNIT

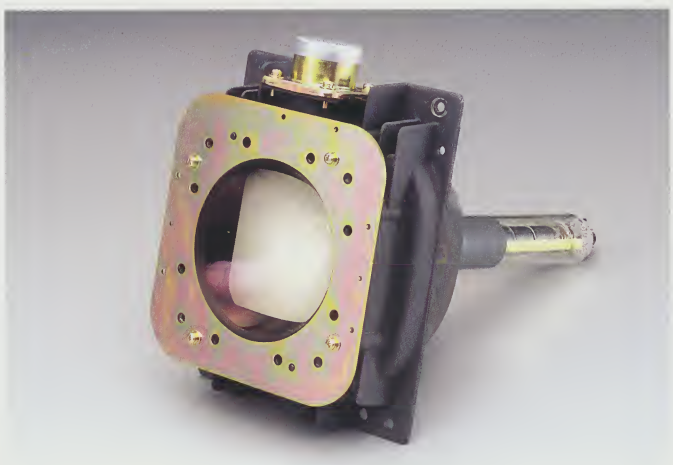
The RVP-6000Q/6000QM combines a projector head, rear screen, reflective mirror and speakers (10 W x 10 W) in a single unit. Since the projector head is installed inside the enclosure, the effect of ambient lighting on the projected image is minimized and as only one mirror is used to reflect image, there is little loss of light intensity. The projector can thus reproduce bright pictures while the room lighting remains at a comfortable level.

SUPERIOR PICTURE QUALITY

High Contrast Image with Optical Coupling CRT

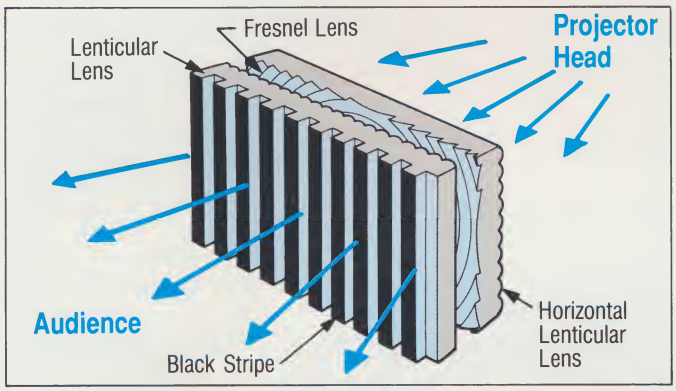
To utilize light output efficiently, the RVP-6000Q/6000QM uses an optical coupling system in its CRTs. In this system, the CRT and the first element of the lens are coupled by liquid to reduce the refraction of light to a minimum. This ensures a high contrast picture display.

Additionally, an anti-reflective multicoating is applied to the lens elements to minimize internal reflection within the lens assemblies. Sharp, clear picture projection can then be achieved.



Wide Viewing Angle Screen

The 0.6 mm pitch of the Super Fine Pitch screen aids the display of precise computer images. Black stripes coated on the screen surface contribute to an even sharper image display by absorbing the ambient light. The two layer screen consists of fresnel lens on the projection side and lenticular lens on the viewing side. Additional lenticular lens attached to the fresnel lens widens the vertical viewing angle. In combination with the fresnel lens and the lenticular lenses, a bright image with good color rendition will be provided on the whole of the screen area.



High Brightness

The new CRT and lenses installed in the RVP-6000Q/6000QM ensure a bright display, maximizing the light output of the projector at 150 ft-L (at peak white)/40 ft-L (all white).

High Resolution

Innovative optical and circuit technologies enable the RVP-6000Q/6000QM to reproduce high resolution images of 1280 x 1024 pixels (RGB input). An internal, top surface mirror efficiently reflects the light output from the projector head onto the projection screen, producing a bright, high resolution picture.

MULTISCAN CAPABILITIES

The RVP-6000Q/6000QM can accept input signals with horizontal scanning frequencies in the range from 15 kHz to 65 kHz and vertical scanning frequencies ranging from 38 Hz to 150 Hz. It will also accept any type of computer sync signals so that the projector is compatible with most computers currently available in the market. Detecting the horizontal frequency of an input signal, the RVP-6000Q/6000QM quickly and accurately adjusts its scanning rates to those of this input. Precise images can be displayed without distortion, regardless of the input signal frequencies.

SYSTEM VERSATILITY

In addition to the Y/C and VIDEO inputs, the RVP-6000Q/6000QM has two input ports for optional IFB Interface Boards. By exchanging these IFBs, the projector can be interfaced with various equipment, from VTRs to computers, according to application. To control several sources in a display system, an optional Signal Interface Switcher PC-1270/1270M can be used, expanding the flexibility of the total projection system.

USER ORIENTED DESIGN

The RVP-6000Q/6000QM was designed with the user's convenience in mind. For mobility, the RVP-6000Q/6000QM has four heavy duty casters, the rear part fitted with brakes so that the projector will remain in the desired position. The mirror cover in the rear section can be folded in, reducing the overall depth of the unit so that it will easily pass through a doorway. This high degree of mobility allows the RVP-6000Q/6000QM to be transported virtually anywhere. The screen center is designed to be 1410 mm (55 5/8") high from the floor to provide the proper viewing angle for both sitting and standing audiences. In addition, the RVP-6000Q/6000QM has a 19" rack (Height: 3U) at the rear so that either the PC-1270/1270M or an audio amplifier can be installed.

EASE OF OPERATION

The supplied wired/wireless remote control unit RM-1270 provides easy operational control of RGB size and shift, centering, input selection, picture control and volume. Using the supplied cable, the RM-1270 can be interconnected with either the RVP-6000Q/6000QM or the PC-1270/1270M. With the memory function, the projector stores the adjusted picture settings automatically. Even after the power is turned off, the data will remain in the memory until some changes are made. Adjustment status and information on the input signals can be displayed on the screen as a reference during operation.

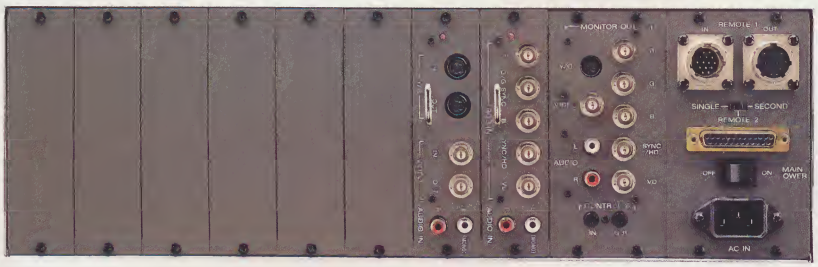
Signal Interface Switcher

PC-1270/1270M

With IFB series interface boards installed*, the PC-1270/1270M can accept up to eight signal inputs, thereby offering remarkable system flexibility. It can be connected to the RVP-6000Q/6000QM using a single CCQ-BRS multi-cable (max. 25 m)** If a second PC-1270/1270M is interconnected to the first, up to sixteen inputs can be selected. Rack mount metals are supplied to mount the PC-1270/1270M into the RVP-6000Q/6000QM or a standard EIA 19" rack, if desired.

* The IFB-10 and the IFB-1000 are supplied with the PC-1270/1270M.
** For the details of connections over longer distances, consult your nearest Sony offices.

Rear Panel



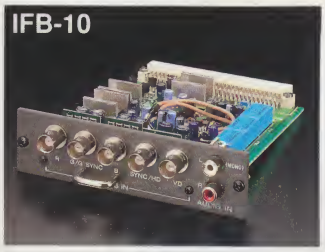
RM-1270S

(Supplied with the PC-1270/1270M)

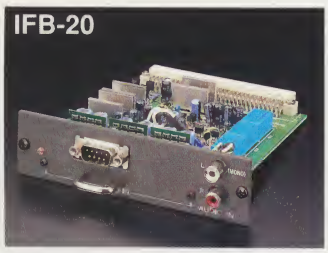
Interface Board

IFB series

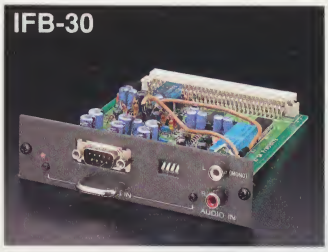
IFB-10



IFB-20



IFB-30



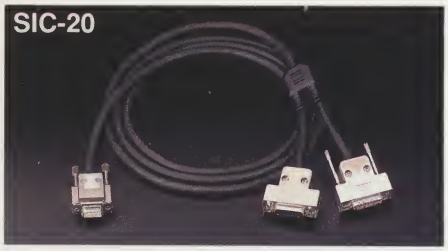
IFB-1000

Signal Interface Cable

SIC series

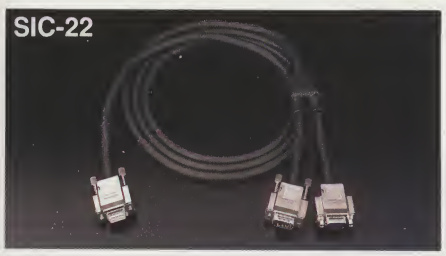
SIC-10

SIC-20

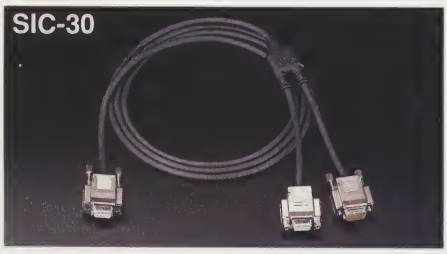


SIC-21

SIC-22



SIC-30



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SPECIFICATIONS
RVP-6000Q/6000QM

Optical

Projection system:	Three picture tubes, three lenses, rear projection system
Picture tube:	7-inch high-luminance monochrome optical coupled, with sealed coolant
Projector lens:	High performance HACC lens, F1.1/116 mm
Screen:	Screen size 60-inch diagonal 0.6 mm pitch, Black stripe two-layer (lenticular/fresnel*) * Rows of lenticular lens are arranged horizontally on the back of the fresnel lense.
Light output:	Peak white: more than 150 ft-L All white: more than 40 ft-L
Contrast ratio:	70 : 1
Viewing angle:	H: ±50° (1/10 brightness) V: ±20° (1/10 brightness)

General

Color system:	NTSC/PAL/SECAM/NTSC4.43 automatically selected
RGB bandwidth:	40 MHz (-3 dB)
Resolution:	RGB IN: 1280 x 1024 pixels (measured at fH: 40 kHz, fV: 38 Hz) VIDEO IN: 700 TV lines
Scanning frequency:	Horizontal: 15 kHz to 65 kHz Vertical: 38 Hz to 150 Hz
Test signals:	Cross hair, Hatch (coarse), Hatch (fine), Hatch (fine, invert), Dot pattern, H-pattern, Window, Pluge, All White (100 IRE)
Speakers:	Max. 10 W + 10 W, 8 ohms, stereo
Power requirements:	RVP-6000Q: AC 120 V, 50/60 Hz RVP-6000QM: AC 220 to 240 V, 50/60 Hz
Power consumption:	460 W max. (Video input) 530 W max. (RGB input)
Weight:	210 kg (462 lb 15 oz)
Dimensions:	1340 (W) x 1930 (H) x 990 (D) mm (52 7/8 x 76 x 39") With the mirror cover folded in: 1340 (W) x 1930 (H) x 750 (D) mm (52 7/8 x 76 x 29 5/8")

Inputs

VIDEO IN:

VIDEO*:	1 Vp-p, sync negative, 75 ohms, BNC	
Y/C*:	Y (luminance):	1 Vp-p, sync negative, 75 ohms
	C (chrominance):	0.286 Vp-p (NTSC), 0.3 Vp-p (PAL) 75 ohms
	Mini DIN 4-pin	

* The Y/C IN has priority over the VIDEO IN.

AUDIO IN:	-5 dBs, input impedance more than 47 k ohms, Phono
INPUT A:	Supplied with IFB-10 fitted.
R/B:	0.7 Vp-p, Positive, 75 ohms, BNC
G/Sync on G:	0.7 Vp-p, Positive, 75 ohms, 1.0 Vp-p, Sync negative, 75 ohms,BNC
Sync:	Composite sync: •Analog level: 0.6~8 Vp-p, High impedance, Positive/Negative •TTL level: Positive/Negative BNC HD/VD separate: •Analog level: 0.6~8 Vp-p, High impedance, Positive/Negative •TTL level: Positive/Negative BNC
AUDIO:	-5 dBs, impedance more than 47 k ohms Phono x 2 (Stereo or monaural selected)
INPUT B:	Blank. Will accept an optional IFB series module.
CONTROL S:	Loop-through Mini connector
REMOTE 1:	14-pin, from the PC-1270/1270M
REMOTE 2:	D-sub 9-pin (Female, RS-422 port)

Outputs

VIDEO OUT:	1 Vp-p, 75 ohms, BNC
AUDIO LINE OUT:	Reference level: -5 dBs at 6.8 k ohms (variable from -77 dB to reference level)

SUPPLIED ACCESSORIES:
Interface Board IFB-10
Infrared Remote Control Unit RM-1270
Remote Control Cable for RM-1270 (10 m)
Extension Board
AC Power Cord

OPTIONAL ACCESSORIES:
Interface Board IFB-10/20/30/1000
Signal Interface Switcher PC-1270/1270M
Signal Interface Cables SIC-10/20/21/22/30
CCQ BRS Cables (14-pin -- 14-pin, 2 m, 5 m, 10 m, 25 m)

•Design and specifications subject to change without notice.

Audio Connector Section

Connector Section

SPECIFICATIONS

PC-1270/1270M

General

RGB bandwidth: 100 MHz (-3 dB)

Power requirements: PC-1270: AC 120 V, 50/60 Hz
PC-1270M: AC 220 to 240 V, 50/60 Hz

Power consumption: 50 W

Dimensions: 424 (W) x 133 (H) x 350 (D)mm (16 3/4 x 5 1/4 x 13 1/2")

Weight: 6.6 kg (14 lb 9 oz)

Inputs

INPUT 1: Supplied with IFB-10 fitted
R/B: 0.7 Vp-p, Positive, 75 ohms, BNC
G/Sync on G: 0.7 Vp-p, Positive, 75 ohms,
1.0 Vp-p, Sync negative, 75 ohms,
BNC
Sync: Composite sync: • Analog level: 0.6~8 Vp-p, High impedance, Positive/Negative
• TTL level: Positive/Negative
BNC
HD/VD separate: • Analog level: 0.6~8 Vp-p,
High impedance, Positive/Negative
• TTL level: Positive/Negative
BNC
AUDIO IN: -5 dBs, Impedance more than
47 k ohms, Phono x 2
(Stereo or monaural selectable)

INPUT 2: Supplied with IFB-1000 fitted.

VIDEO*1: 1 Vp-p, sync negative, Automatic 75 ohms termination*2, Loop-through BNC

Y/C*1: Y (Luminance): 1 Vp-p, sync negative, Automatic 75 ohms termination*2
C (Chrominance): 0.286 Vp-p(NTSC),0.3 Vp-p (PAL), Automatic 75 ohms termination*2
Loop-through mini DIN 4-pin

*1 The Y/C IN has priority over the VIDEO IN.
*2 75 ohm termination is automatically set to OFF when connection is made to the OUT connector.

AUDIO: -5 dBs, impedance more than 47 k ohms, Phono x 2 (Stereo or monaural selectable)

INPUT 3~8: Blank. Will accept optional IFB series modules.

REMOTE 1: 14-pin, from the second PC-1270/1270M

REMOTE 2: D-sub 25-pin (female), from the external control unit

CONTROL S: Loop-through Mini jack

Outputs

MONITOR OUT:

VIDEO: 1 Vp-p, Sync negative, 75 ohms,BNC

Y/C: Y (Luminance): 1 Vp-p, Sync negative, 75 ohms
C (Chrominance): 0.286 Vp-p (NTSC),
0.3 Vp-p (PAL) 75 ohms,
Mini DIN 4-pin

R/B: Analog level: 0.7 Vp-p, Positive, 75 ohms, BNC

G/Sync on G: 0.7 Vp-p, Positive, 75 ohms, 1 Vp-p, sync negative, 75 ohms, BNC

HD/VD/HV: 1 Vp-p, Positive/Negative, 75 ohms, BNC

AUDIO: -5 dBs, Impedance 1 k ohms, Phono x 2 (Stereo or monaural selected)

REMOTE 1: 14-pin, to RVP6000Q/6000QM or first PC-1270/1270M

SUPPLIED ACCESSORIES:
Interface Board IFB-10/1000
Infrared Remote Control Unit RM-1270S
Rack Mount Metal with Screws (one pair)

OPTIONAL ACCESSORIES:
Interface Board IFB-10/20/30/1000
Signal Interface Cable SIC-10/20/21/22/30

Interface Board IFB series

IFB-10: Inputs: RGB: Analog, BNC x 5,
AUDIO: Phono x 2 (Stereo or monaural selectable)
Dimensions: 129 (W) x 35 (H) x 125 (D)mm (5 1/8 x 1 7/16 x 5")
Weight: Approx. 180 g (6.3 oz)
* One IFB-10 is supplied with both the RVP-6000Q/6000QM and the PC-1270/1270M.

IFB-20: Inputs: RGB: Analog, D-sub 9-pin (male)
AUDIO: phono x 2 (Stereo or monaural selectable)
Dimensions: 129 (W) x 35 (H) x 125 (D)mm (5 1/8 x 1 7/16 x 5")
Weight: Approx. 170 g (6.0 oz)

IFB-30: Inputs: RGB: TTL level, D-sub 9-pin
AUDIO: Phono x 2 (Stereo or monaural selectable)
Dimensions: 129 (W) x 35 (H) x 125 (D)mm (5 1/8 x 1 7/16 x 5")
Weight: Approx. 110 g (3.9 oz)

IFB-1000: Inputs: VIDEO*: Loop-through BNC
Y/C*: Loop-through mini DIN 4-pin
AUDIO: Phono x 2 (Stereo or monaural selectable)
* The Y/C IN has priority over the VIDEO IN.
Dimensions: 129 (W) x 35 (H) 125 (D)mm (5 1/8 x 1 7/16 x 5")
Weight: Approx. 160 g (5.6 oz)
* One IFB-1000 is supplied with the PC-1270/1270M.

Signal Interface Cable SIC series

SIC-10: Connector: 5 BNC/5 BNC
Length: 10 m (32.8 ft)

SIC-20: Connector: D-sub 15-pin to local monitor (female)
D-sub 15-pin to computer (male)
D-sub 9-pin to IFB-20 (female)
Length: 2 m (6.6 ft), overall, 0.2 m (0.7 ft), branch

SIC-21: Connector: D-sub 9-pin to local monitor (female)
D-sub 9-pin to computer (male)
D-sub 9-pin to IFB-20 (female)
Length: 2 m (6.6 ft), overall, 0.2 m (0.7 ft), branch

SIC-22: Connector: High Density 15-pin to local monitor (female)
High Density 15-pin to computer (male)
D-sub 9-pin to IFB-20 (female)
Length: 2 m (6.6 ft), overall, 0.2 m (0.7 ft), branch

SIC-30: Connector: D-sub 9-pin to local monitor (female)
D-sub 9-pin to computer (male)
D-sub 9-pin to IFB-30 (female)
Length: 2 m (6.6 ft), overall, 0.2 m (0.7 ft), branch

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